

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexascins, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/558,383	11/07/2006	Masato Yamazaki	Q90710	4172	
23373 SUGHRUE M	7590 02/24/200 HON PLLC	EXAM	EXAMINER		
3COTROL SUNT, LLC 2100 PENNSYL VANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			ROSENAU, D	ROSENAU, DEREK JOHN	
			ART UNIT	PAPER NUMBER	
Wishing	71, DC 20057	2834			
			MAIL DATE	DELIVERY MODE	
			02/24/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/558,383	YAMAZAKI ET AL.		
Examiner	Art Unit		
Derek J. Rosenau	2834		

	Derek J. Rosenau	2834					
The MAILING DATE of this communication appe	ars on the cover sheet with the o	orrespondence add	ress				
THE REPLY FILED 05 February 2009 FAILS TO PLACE THIS A	APPLICATION IN CONDITION FO	R ALLOWANCE.					
1. So The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 3 TCR41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:							
a) The period for reply expires 3 months from the mailing date							
o) The period for reply expires on: (1) the mailling date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.							
Examiner Note: If box 1 is checked, check either box (a) or (I MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).						
Extensions of time may be obtained under 37 CFR 1,136(a). The date have been filled is the date for purposes of determining the period of exh under 37 CFR 1,17(a) is calculated from: (1) the expiration date of the s set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patient term adjustment. See 37 CFR 1,704(b). NOTICE OF APPEAL.	ension and the corresponding amount of hortened statutory period for reply origi	of the fee. The appropri- nally set in the final Office	ate extension fee e action; or (2) as				
The Notice of Appeal was filed on A brief in compl filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with the second process.	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	s of the date of appeal. Since a				
<u>AMENDMENTS</u>							
 The proposed amendment(s) filed after a final rejection, be (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below 	sideration and/or search (see NOT		cause				
(c) They are not deemed to place the application in bett		lucing or simplifying t	ne issues for				
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	orresponding number of finally reje	ected claims.					
 4. The amendments are not in compliance with 37 CFR 1.12 5. Applicant's reply has overcome the following rejection(s): 		mpliant Amendment (PTOL-324).				
6. Newly proposed or amended claim(s) would be all		imely filed amendmer	nt canceling the				
non-allowable claim(s). 7. For purposes of appeal, the proposed amendment(s): a) [be entered and an e	xplanation of				
how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:	ided below or appended.						
Claim(s) allowed: Claim(s) objected to:							
Claim(s) rejected: Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE							
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 							
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea	l and/or appellant fail	s to provide a				
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	of the status of the claims after er	ntry is below or attach	ed.				
11. The request for reconsideration has been consider	red but does NOT place the applic	ation in condition for	allowance				
because: See Continuation Sheet.							
12. \square Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)						
13. Other:							

/Quyen Leung/ SPE, Art Unit 2834

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed 5 February 2009 have been fully considered but they are not persuasive.

Applicant argues that it would not be obvious to combine the teachings of Kennedy et al. with those of Kimura et al., as Kennedy et al. merely discloses a known sintering aid for sintering ceramic material, and that because of this, the teachings of Kennedy et al. are not pertinent to Kimura et al. However, as Kimura et al. is directed to piezoelectric ceramic materials and Kennedy et al. is directed to a sintering aid for ceramic compositions in general, the teachings of Kennedy et al. would be pertinent to Kimura et al., and it would therefore be obvious to combine their teachings.

Applicant argues that the sintering aids used as additives in the ceramic composition of Kennedy et al. would impair the piezoelectric characteristics of the piezoelectric composition of Kimura et al., as taught by Yoshihiro Konishi and Toshiro Tsuji in 'Basis and Application of Electroceramics'. However, this reference does not provide the concentration at which deterioration of piezoelectric characteristics takes place. In paragraphs 14 and 15 of the present application, applicant admits that deterioration of the piezoelectric characteristics takes place with concentrations greater than 5%. Even if the deterioration does occur at concentrations below 5%, there would be a tradeoff between sinterability and piezoelectric characteristics that one of ordinary skill in the art would have to balance in designing the piezoelectric ceramic material. In addition, the combination of Kimura et al. and Kennedy et al., yields a composition having each of the claimed structural elements, and would therefore inherently possesses the same advantages and disadvantages as the claimed composition.

Applicant argues that because it was known that the piezoelectric characteristics would vary based on the added components, that there would be no motivation to combine the teachings of Kimura et al. and Kennedy et al. However, even if the singing aid concentration is sufficient to cause deterioration in the piezoelectric characteristics, it would remain obvious to combine the sintering aid of Kennedy et al. with the composition of Kimura et al. for the benefit of improved sinterability. Applicant argues that one of ordinary skill in the art would not have looked to Kennedy et al. it to solve the problem of preventing the impairment of piezoelectric characteristics of a piezoelectric ceramic composition. However, the references need not solve the problem with which the applicant was concerned. It would have been obvious to a person of ordinary skill in the art to look to Kennedy et al. for its teachings of improved sinterability.

Applicant argues that Kennedy et al. is unrelated to the technical field of piezoelectric ceramic compositions. However, Kennedy et al. is related to the broader technical field of ceramic compositions; as such, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Kennedy et al. with those of Kimura et al.

Applicant argues that neither Kimura et al. nor Kennedy et al., nor the combination thereof discloses all of the technical findings, or calemed features, which address the relation between sintering aid components and piezoelectric characterists. However, the references need not disclose the same technical findings or relationships between sintering aids and piezoelectric characteristics, the references only need to show each of the claimed structural features.